

Underground Storage Tanks (UST) Program

Regulatory Update May 21, 2009

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Chief, Groundwater Branch

Land Division

UST Program Statutory Authority

Federal

 Subtitle I of Resource Conservation and Recovery Act (RCRA) 1984

State

 Alabama Underground Storage Tank and Wellhead Protection Act 1988





State UST Regulations

ADEM Administrative Code

- Division 6 Volume II
- Chapter 335-6-15

UST Program

- Regulatory Requirements
- Compliance Evaluation
- Common Compliance Problems
- 2005 Energy Act (New Requirements)



UST Program



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Underground Storage Tank System

- Tanks, Piping,ConnectedEquipment
- Contains RegulatedSubstances
- 10% or More Underground



UST Program

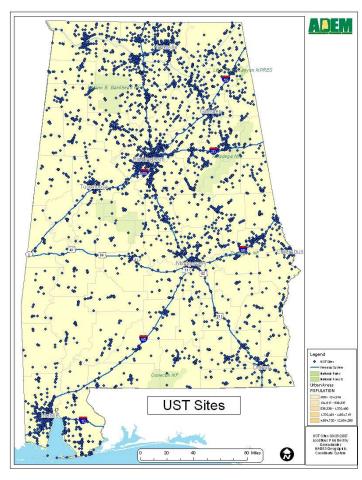
Regulated Substances

- Petroleum Products and Mixtures
- Hazardous Substances
 - CERCLA Section 101(14)



Regulated Universe

- Regulated Tanks 16,723
- Regulated Facilities 6,214
- Tank Owners3,300





Regulatory Approach

UST Requirements Address

- Prevention of
- Detection of
- Response to

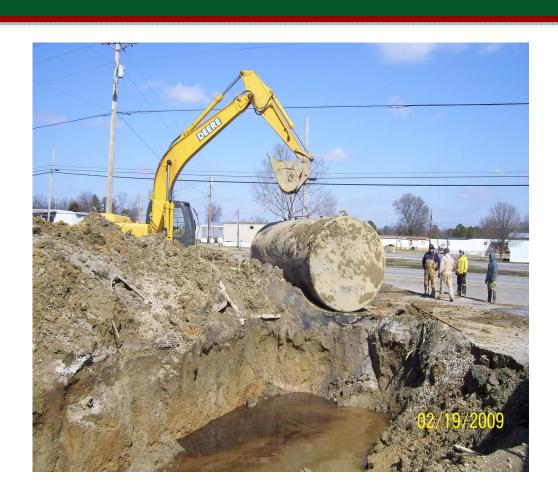
Releases from UST's

Regulatory Requirements

- Notification / Registration
- Annual Regulatory Fee- \$30/tank
- Performance standards
- Routine testing and reporting
- Reporting and response to suspected releases



Notification Requirements



Must notify ADEM 30 days prior to system

- Installation
- Modification
- Closure



Performance Standards Materials of Construction

USTs

- Fiberglass-Plastic Construction, or
- Steel and Protected from Corrosion
- Compatible with substance stored

Piping

- Non-metallic
- Steel and Protected from Corrosion
- Compatible with substance stored

Performance Standards Leak Detection

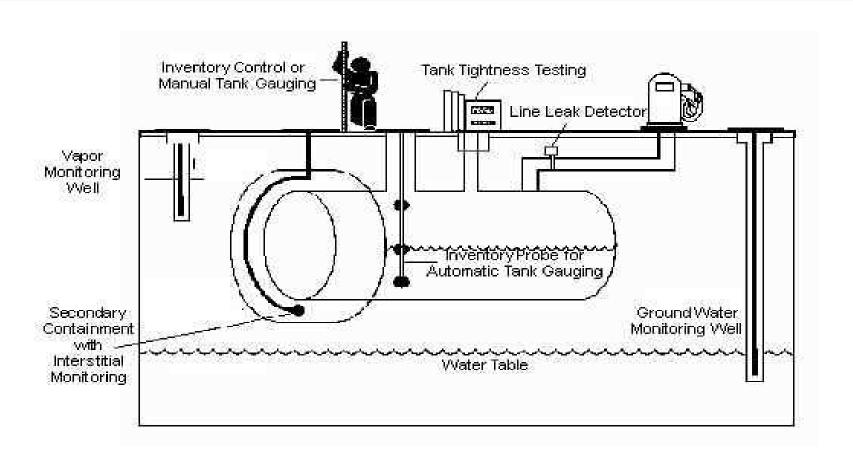
Tanks and Piping

- Installation before August 6, 2007
 - 0.95 Probability of Detection
 - Several methods allowed
 - Monthly monitoring
- Installation August 6, 2007 or after
 - Secondary containment
 - Interstitial monitoring





Performance Standards Leak Detection



Performance Standards Leak Detection



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Dispensers

Installed/Replaced August 6, 2007 or after

- UnderDispenserSecondarycontainment
- Liquid tight
- Compatible with substance stored

Performance Standards Under Dispenser Containment





Performance Standards Under Dispenser Containment



Performance Standards Cathodic Protection

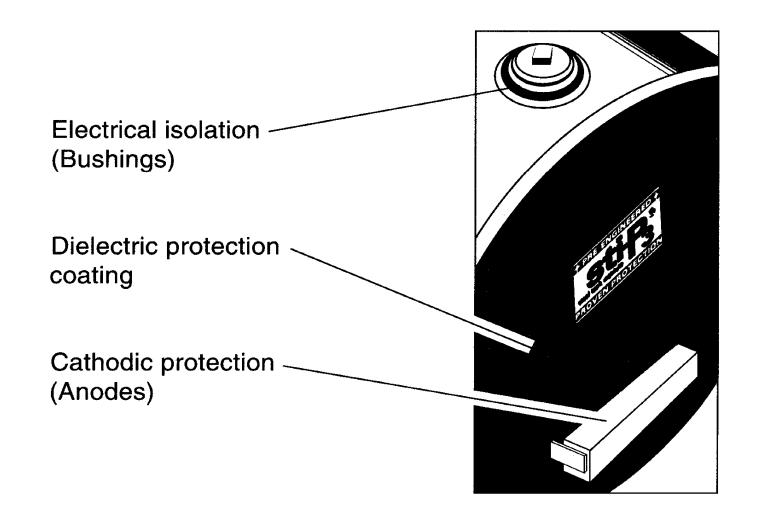
- Operated continuously
- Protect all metal components
 - Contact with the ground
 - Routinely contain fuel
- Observe NACE standards

(National Association of Corrosion Engineers)



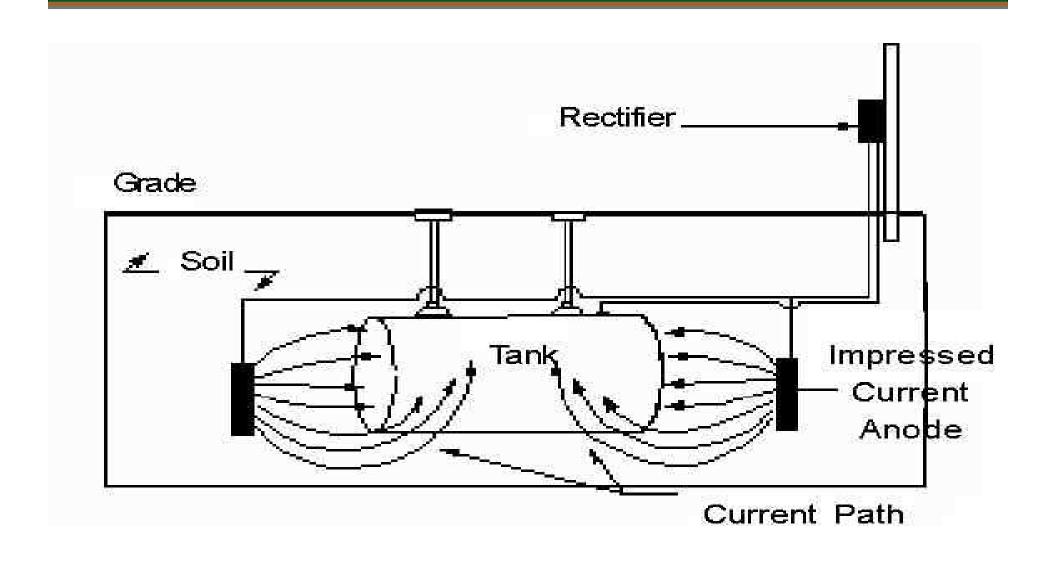


GalvanicCathodic Protection System





Impressed Current Cathodic Protection System

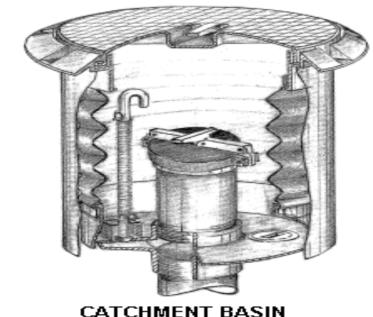




Performance Standards **Spill Prevention – Overfill Prevention**

Spill Catchment Basin

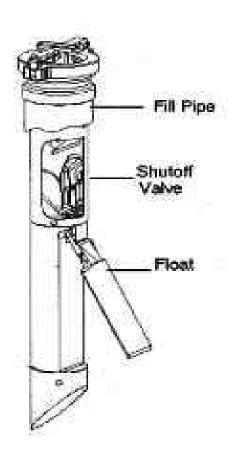
To contain the volume of the delivery hose





Performance Standards Spill Prevention – Overfill Prevention





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Ball Float Valves, Flapper Valves

Activated by product level to prevent tank overfills



Regulatory Requirements **Testing and Reporting**

- Leak Detection
- Corrosion Protection
- Spill Catchment Basin
- Closure
- Suspected Releases

Testing Leak Detection



- Pressurized Piping -Annual test
- Leak Detectors equipment that will
 shut off or restrict
 flow of product if a
 leak is detected –
 Annual test
- Sump Sensors –
 Annual test
- Suction Piping No monitoring required if "safe suction"



Testing Corrosion Protection

Cathodic protection test required once every three years

 Owner inspection of impressed current systems every 60 days

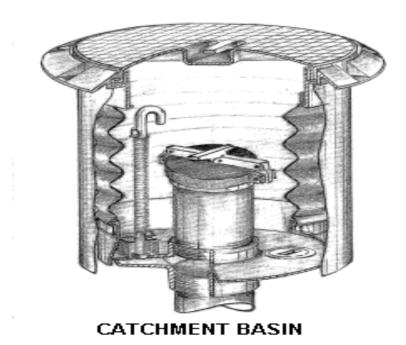


Rectifier





Testing Spill Catchment Basins



- Annual testing required
- Results must be kept on file
- Effective August 6, 2007



Reporting Leak Detection

- Annual Line Tightness Tests
- Statistical Inventory Reconciliation Annual Summary Report
 - **➤ Due January 31st**
- Annual Leak Detector Tests

Reporting Closure and Releases



- Permanent Closure of a UST System
- Suspected releases must be reported within 24 hours.

Compliance Evaluation

- Compliance Inspections
 - 12 InspectorsStatewide
- UST Database Record Reviews



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Compliance Evaluation

Compliance Inspections

- Once every 3 years
- Annual inspections in Wellhead Protection
 Areas
- 3132 inspections in 2008



Compliance Evaluation

UST Database Record Reviews

- Annual Fee Invoices
- Test Submittals
 - Reminder Notices
 - Notices of Violation



 Cathodic Protection Systems once every 3 years



- Cathodic Protection Systems once every 3 years
- Cathodic Protection Systems correctly



- Cathodic Protection Systems once every 3 years
- Cathodic Protection Systems correctly
- Pressurized Piping annually



- Cathodic Protection Systems once every 3 years
- Cathodic Protection Systems correctly
- Pressurized Piping annually
- Leak Detectors annually



- Cathodic Protection Systems once every 3 years
- Cathodic Protection Systems correctly
- Pressurized Piping annually
- Leak Detectors annually
- Spill Catchment Basins annually

A DEM Common Compliance Problems

Failure to submit Annual SIR Summary

Common Compliance Problems

- Failure to submit Annual SIR Summary
- Failure to maintain ATG monthly test



- Failure to submit Annual SIR Summary
- Failure to maintain ATG monthly test
- Failure to record CP rectifier readings once every 60 days



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- Failure to record CP rectifier readings once every 60 days
- Failure to remove water from sumps

Common Compliance Problems

- Failure to submit Annual SIR Summary
- Failure to maintain ATG monthly test
- Failure to record CP rectifier readings once every 60 days
- Failure to remove water from sumps
- Failure to notify of change of ownership



2005 Energy Act

- Secondary Containment
 - ✓ Implemented August 6, 2007
- Delivery Prohibition
 - ✓ Regulations effective April 25, 2008
- Operator Training



Delivery Prohibition 2005 Energy Act

Prohibition of delivery or acceptance of product for non-compliant UST facilities

- Penalty for owner and deliverer
- Regulations Effective April 25, 2008
- Implemented August, 2008



Delivery prohibition may be imposed for failure of an owner to:

 Install, operate and/or maintain cathodic protection, leak detection, under dispenser containment, or spill or overfill controls



Delivery prohibition may be imposed for failure of an owner to:

- Install, operate and/or maintain cathodic protection, leak detection, under dispenser containment, or spill or overfill controls
- Ensure compatibility of UST with product



Delivery prohibition may be imposed for failure of an owner to:

- Install, operate and/or maintain cathodic protection, leak detection, under dispenser containment, or spill or overfill controls
- Ensure compatibility of UST with product
- Perform required testing



Delivery prohibition may be imposed for failure of an owner to:

- Install, operate and/or maintain cathodic protection, leak detection, under dispenser containment, or spill or overfill controls
- Ensure compatibility of UST with product
- Perform required testing
- Pay regulatory fees



Delivery prohibition may be imposed for failure of an owner to:

- Install, operate and/or maintain cathodic protection, leak detection, under dispenser containment, or spill or overfill controls
- Ensure compatibility of UST with product
- Perform required testing
- Pay regulatory fees
- Take corrective action for releases

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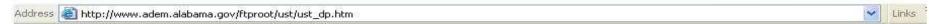
Delivery Prohibition DP List

How does ADEM notify fuel delivery companies that a facility is prohibited from delivery?

- Delivery Prohibition List on ADEM web site
- Delivery Prohibition List updated every Wednesday at 12:00 a.m.
- E-mails sent to delivery companies



Delivery Prohibition 2005 Energy Act



Delivery Prohibition List

You May Need To Click Your Refresh Button To View The Latest Version Of The List

It is illegal to deliver or to accept delivery of product to any of the USTs at a facility on this list.

| Facility Name | Facility Address | Owner | Acct, Number | County | Site ID No. | Date Delivery Prohibition Begins | Red Tag Pla |
|--------------------------|---|---------------------------------|--------------|----------|-------------|----------------------------------|-------------|
| Quentin's Country Mart | 1958 Highway 82 West, Prattville | Max Hand | 22490 | Autauga | 15050 | November 26 , 2008; 12:00 a.m. | No |
| VIDA Quick Stop | 1872 Co. Hwy. 19 N., Prattville | William Willis | 22034 | Autauga | 15739 | May 6, 2009; 12:00 a.m. | No |
| Clayton Convenience Stor | 182 N. Midway Street, reClayton | Steve & Cathy Carawaγ | | Barbour | 12914 | December 17, 2008; 12:00 a.m. | No |
| Bulk Plant - Clayton | 3650 Highway 30, Clayton | Superior Oil | 21481 | Barbour | 7860 | March 18, 2009; 12:00 a.m. | No |
| Jame's Place | 16051 Highway 431, Glencoe | RJ's Independent Gasoline | 14199 | Calhoun | 3835 | August 27, 2008; 12:00 a.m. | No |
| Pat's Handy Market | 205 Highway 68, Collinsville | Patricia Jenkins | 23093 | Cherokee | 3282 | March 18, 2009; 12:00 a.m. | No |
| USA Petroleum #179 | 648-B Boll Weavill Circle Enterprise | Kosar Younas | 22404 | Coffee | 5408 | May 6, 2009; 12:00 a.m. | No |
| Big M Minit Stop #1 | 1331 Broad Street, Selma | Michael Collins | 13418 | Dallas | 8967 | September 10 , 2008; 12:00 a.m. | No |
| | 533 E. Broad Street, | RJ's Independent | 36 | es | 88 8 | 1 | 88 |



Delivery Prohibition 2005 Energy Act

ADEM may delay imposition of delivery prohibition in remote areas 180 days

ADEM may lift delivery prohibition during an emergency

ADEM

Operator Training 2005 Energy Act



- Regulations required by August 8, 2009
- Operators must be trained by August 8, 2012.
- Three classes of operators
- Rulemaking to be initiated soon



Contact Information

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